

In re the Application of:

**Quertermous et al.**

**Serial No.: 09/237,981**

**Filed: January 25, 1999**

**For: ANTIBODIES BINDING TO  
POLYPEPTIDES ENCODED BY  
DEVELOPMENTALLY-REGULATED  
ENDOTHELIAL CELL LOCUS-1**

**Group Art Unit: 1646**

**Examiner:** To be assigned

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Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In compliance with the Applicants' duty under 37 CFR 1.97-98, the following information is brought to the attention of the Examiner. Copies of items listed on the attached Form PTO-1449 are provided herewith, however, copies of AB, AD-AJ, AL, AX, BH, BK, BP, BU, BZ, CC, CK, CL, CQ, CX, CY, DE, DH, DR, EG, EG, ER, FE and FM are not provided as they were cited and/or provided in parent application number 08/659,235 filed June 5, 1996, issued as patent number 5,577,281.

SD-137206.1

**CERTIFICATE OF MAILING**  
**(37 C.F.R. §1.8a)**

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as First Class Mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

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The items identified in this Information Disclosure Statement may or may not be “material” pursuant to 37 CFR 1.56 and the submission thereof by Applicants shall not be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR 1.97(h)), or even qualifies as “prior art” under 35 U.S.C. § 102 with respect to this invention unless specifically designated by Applicants as such.


The filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information, as defined in 37 CFR 1.56, exists.

This Information Disclosure Statement is believed to be timely in that it is being submitted under 37 CFR 1.97(b) (3) before the mailing of a first Office Action on the merits, whereby no petition or fee is required. However, if counsel for Applicant is in error in this regard, the Commissioner is requested to consider this a petition and he is authorized to charge any required petition fee to counsel’s Deposit Account No. **12-2475**.

Respectfully submitted,

LYON & LYON LLP

Dated: November 19, 1999

By:   
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FORM PTO-1449  LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)	ATTY. DOCKET NO. 238/300	SERIAL NO. 09/237,981
	APPLICANT: Quertermous et al.	
	FILING DATE: January 25, 1999	GROUP: 1646

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	AA	4,215,051	7/29/80	Schroeder et al.	260	346.7	8/29/79
	AB	4,868,112	9/1989	Toole Jr. et al.	435	68	
	AC	4,946,778	8/7/90	Ladner et al.	435	69.6	1/19/89
	AD	5,096,825	3/1992	Barr et al.	435	255	
	AE	5,270,170	12/1993	Schatz et al.	435	7.37	
	AF	5,505,955	4/1996	Peterson et al.	424	439	
	AG	5,506,107	4/1996	Cunningham et al.	435	7.21	
	AH	5,508,199	4/1996	Gonzalez et al.	435	320.1	

### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	AI	96/40769	12/1996	WIPO				
	AJ	94/11508	26.05.94	WO/PCT (Cancer Research)				

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

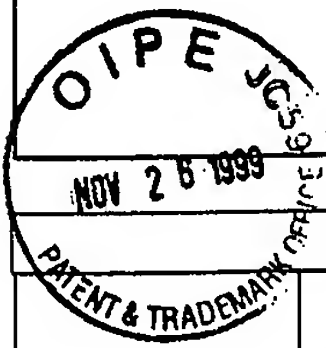
	AK	Allen et al., "Transgenes as probes for active chromosomal domains in mouse development," <u>Nature</u> 333:852-855 (1988)
	AL	Anderson, 1990, "Adhesion molecules and animal development," <u>Experientia</u> 46:2-13
	AM	Aruffo et al., "CD44 is the principal cell surface receptor for hyaluronate," <u>Cell</u> 61:1303 (1990)
	AN	Ausubel et al.(editor), <u>Current Protocols in Molecular Biology</u> , John Wiley & Sons (1994) (TABLE OF CONTENTS FOR VOLS. 1 & 2)
	AO	Bevilacqua et al., "Endothelial leukocyte adhesion molecule 1: An inducible receptor for neutrophils related to complement regulatory proteins and lectins," <u>Science</u> 243:1160-1165 (1989)
	AP	Bevilacqua et al., "Selectins," <u>J. Clin. Invest.</u> 91:379-387 (1993)
	AQ	Bhat et al., "Functional cloning of mouse chromosomal loci specifically active in embryonal carcinoma stem cells," <u>Mol. Cell. Biol.</u> 8:3251-3259 (1988)
	AR	Bisgrove et al., "The spEGF III gene encodes a member of the fibropellins: EGF repeat-containing proteins that form the apical lamina of the sea urchin embryo," <u>Develop. Biol.</u> 157:526-538 (1993)
	AS	Bitter et al., "Expression and secretion vectors for yeast," <u>Methods in Enzymology</u> 153:516-544 (1987)
	AT	Bitter, Heterologous Gene Expression in Yeast," <u>Methods in Enzymology</u> 152:673-684 (1987)
	AU	Breier et al., "Expression of vascular endothelial growth factor during embryonic angiogenesis and endothelial cell differentiation," <u>Development</u> 114:521-532 (1992)
	AV	Brisson et al., "Expression of a bacterial gene in plants by using a viral vector," <u>Nature</u> 310:511-514 (1984)

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
AW	Broglie et al., "Light-regulated expression of a pea ribulose-1,5-biphosphate carboxylase small subunit gene in transformed plant cells," <u>Science</u> 224:838-843 (1984)	
AX	Brooks et al., 1994, "Integrin $\alpha_v\beta_3$ antagonists promote tumor regression by inducing apoptosis of angiogenic blood vessels," <u>Cell</u> 79:1157-1164	
AY	Broudy et al., "Interluekin 1 stimulates human endothelial cells to produce granulocyte-macrophage colony-stimulating factor and granulocyte colony-stimulating factor," <u>J. Immunol.</u> 139:464-468 (1987)	
AZ	Caruthers et al., "New chemical methods for synthesizing polynucleotides," <u>Nuc. Acids Res. Symp. Ser.</u> 7:215-233 (1980)	
BA	Chow et al., "Synthesis of oligodeoxyribonucleotides on silica gel support," <u>Nuc. Acids Res.</u> 9(12):2807-2817 (1981)	
BB	Coffin et al., "Endothelial cell origin and migration in embryonic heart and cranial blood vessel development," <u>Anat. Rec.</u> 231:383-395 (1991)	
BC	Colberre-Garapin et al., "A new dominant hybrid selective maker for higher eukaryotic cells," <u>J. Mol. Biol.</u> 150:1-14 (1981)	
BD	Cole et al., "The EBV-Hybridoma technique and its application to human lung cancer," <u>Monoclonal Antibodies and Cancer Therapy</u> pp. 77-96 (1985)	
BE	Coruzzi et al., "Tissue-specific and light-regulated expression of a pea nuclear gene encoding the small subunit of ribulose-1, 5-bisphosphate carboxylase," <u>EMBO J.</u> 3:1671-1680 (1984)	
BF	Cote et al., "Generation of human monoclonal antibodies reactive with cellular antigens," <u>Proc. Natl. Acad. Sci.</u> 80:2026-2030 (1983)	
BG	Cotran et al., "Cytokine-endothelial interactions in inflammation, immunity, and vascular injury," <u>J. Am. Soc. Nephrol.</u> 1:225-235 (1990)	
BH	Couso et al., 1994, "Notch is required for wingless signaling in the epidermis of drosophila," <u>Cell</u> 79:259-272	
BI	Crea et al., "Synthesis of oligonucleotides on cellulose by a phosphotriester method," <u>Nuc. Acids Res.</u> 9(10):2331-2348 (1980)	
BJ	Creighton, <u>Proteins Structures and Molecular Principles</u> , W.H. Freeman and Co., N.Y. pp. 34-60 (1983)	
BK	Crowley et al., 1985, "Phenocopy of discoidin I-minus mutants by antisense transformation in dictyostelium," <u>Cell</u> 43:633-641	
BL	<u>Current Protocols in Molecular Biology</u> , Vol. 2, Ed. Ausubel et al., Greene Publish. Associ. & Wiley Interscience, Ch. 13 (1988)	
BM	Del Amo et al., "Expression pattern of Motch, a mouse homolog of drosophila notch, suggests an important role in early postimplantation mouse development," <u>Development</u> 115:737-744 (1992)	
BN	Doolittle, "The genealogy of some recently evolved vertebrate proteins," <u>TIBS</u> pp. 233-237 (1985)	
BO	Dumont et al., "tek- a novel tyrosine kinase gene located on mouse chromosome 4, is expressed in endothelial cells and their presumptive precursors," <u>Oncogene</u> 7:1471-1480 (1992)	
BP	Dumont et al., "The endothelial-specific receptor tyrosine kinase, TEK, is a member of a new subfamily of receptors," <u>Oncogene</u> 8(5):1293-1301 (1993)	

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BQ	Durkin et al., "Amino acid sequence and domain structure of entactin. Homology with epidermal growth factor precursor and low density lipoprotein receptor," <u>J. Cell. Biol.</u> 107:2749-2756 (1988)	
BR	Ekblom et al., "Role of mesenchymal nidogen for epithelial morphogenesis in vitro," <u>Development</u> 120:2003-2014 (1994)	
BS	Ellisen et al., "TAN-1, the human homolog of the drosophila notch gene, is broken by chromosomal translocations in T lymphoblastic neoplasms," <u>Cell</u> 66:649-661 (1991)	
BT	Engel, "EGF-like domains in extracellular matrix proteins: Localized signals for growth and differentiation," <u>FEBS Lett.</u> 251:1-7 (1989)	
BU	Familar et al., GenBank Accession Number L14608 (accessed Dec. 18, 1997) July 14, 1993	
BV	Fidler et al., "The implications of angiogenesis for the biology and therapy of cancer metastasis," <u>Cell</u> 79:185-188 (1994)	
BW	Folkman and Shing, "Angiogenesis," <u>J. Biol. Chem.</u> 267:10931-10934 (1992)	
BX	Folkman et al., "Angiogenic factors," <u>Science</u> 235:442-447 (1987)	
BY	Fong et al., "Tumor progression and loss of heterozygosity at 5q and 18q in non-small cell lung cancer," <u>Cancer Res.</u> 55:220-223 (1995)	
BZ	Fortini et al., 1994, "The suppressor of hairless protein participates in notch receptor signaling," <u>Cell</u> 79:273-282	
CA	Francke, "Digitized and differentially shaded human chromosome ideograms for genomic applications," <u>Cytogenet. Cell Genet.</u> 65:206-219 (1994)	
CB	Frazier, "Thrombospondin: A modular adhesive glycoprotein of platelets and nucleated cells," <u>J. Cell. Biol.</u> 105:625 (1987)	
CC	Fukuzawa et al., 1988, "Monoclonal antibodies against discoidin I and discoidin II of the cellular slime mold, Dictyostelium discoideum," <u>J. Biochem</u> 103:884-888	
CD	Gimbrone et al., "Endothelial interleukin-8: A novel inhibitor of leukocyte-endothelial interactions," <u>Science</u> 246:1601-1603 (1989)	
CE	Granger et al., "Molecular and cellular basis of myocardial angiogenesis," <u>Cell and Mol. Biol. Res.</u> 40:81-85 (1994)	
CF	Grierson et al., <u>Plant Molecular Biology</u> 2 <sup>nd</sup> Ed. Blackie, London Ch. 7-9 (1988)	
CG	Gunning et al., "A Human $\beta$ -actin Expression Vector System Directs High-level Accumulation of Antisense Transcripts," <u>Proc. Natl. Acad. Sci. USA</u> 84:4831-4835 (1987)	
CH	Gurley et al., "Upstream sequences required for efficient expression of a soybean heat shock gene," <u>Mol. Cell. Biol.</u> 6:559-565 (1986)	
CI	Harlow and Lane, <u>Antibody: A Laboratory Manual</u> , Cold Spring Harbor Laboratory (1988) (Table of Contents Only)	
CJ	Hartman et al., "Two dominant-acting selectable markers for gene transfer studies in mammalian cells," <u>Proc. Natl. Acad. Sci.</u> 85:8047-8051 (1988)	
CK	Henderson et al., 1994, "lag-2 may encode a signaling ligand for the GLP-1 and LIN-12 receptors of C. elegans," <u>Development</u> 120:2913-2924	
CL	Hillier et al., GenBank Accession Number R56339 (accessed Dec. 18, 1997) May 23, 1995	
CM	Hogan et al., <u>Manipulating the Mouse Embryo</u> , Cold Spring Harbor Press (1994) Table of Contents Only	

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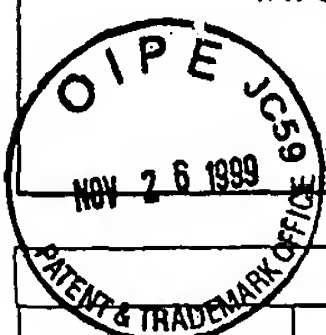


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CN	Hollenbaugh et al., "Construction of immunoglobulin fusion proteins," <u>Current Protocols in Immunology</u> , Unit 10.19 (1992)	
CO	Huse et al., "Generation of a large combinatorial library of the immunoglobulin repertoire in phage lambda," <u>Science</u> 246:1275-1281 (1989)	
CP	Hutter et al., "glp-1 and inductions establishing embryonic axes in <i>C. elegans</i> ," <u>Development</u> 120:2051-2064 (1994)	
CQ	Hynes, 1992, "Integrins: Versatility, modulation, and signaling in cell adhesion," <u>Cell</u> 69:11-25	
CR	Inouye and Inouye, "Up-promotor mutations in the <i>lpp</i> gene of <i>Escherichia coli</i> ," <u>Nucleic Acids Research</u> 13(9):3100-3111 (1985)	
CS	Ishikawa et al., "Identification of angiogenic activity and the cloning and expression of platelet-derived endothelial cell growth factor," <u>Nature</u> 338:557-562 (1989)	
CT	Issekutz, "Lymphocyte homing to sites of inflammation," <u>Curr. Opin. Immunol.</u> 4:287-293 (1992)	
CU	Jackman et al., "Characterization of a thrombomodulin cDNA reveals structural similarity to the low density lipoprotein receptor," <u>Proc. Natl. Acad. Sci.</u> 83:8834-8838 (1986)	
CV	Janssens et al., "Cloning and expression of a cDNA encoding human endothelium-derived relaxing factor/Nitric oxide synthase," <u>J. Biol. Chem.</u> 267:14519-14522 (1992)	
CW	Jenny et al., "Complete cDNA and derived amino acid sequence of human factor V," <u>Proc. Natl. Acad. Sci.</u> 84:4846-4850 (1987)	
CX	Johnson et al, 1993, "A receptor tyrosine kinase found in breast carcinoma cells has an extracellular discoidin I-like domain," <u>Proc. Natl. Acad. Sci. USA</u> 90:5677-5681	
CY	Kane et al., 1986, "Cloning of a cDNA coding for human factor V, a blood coagulation factor homologous to factor VIII and ceruloplasmin," <u>PNAS</u> 83:6800-6804	
CZ	Karls et al., "Structure, expression, and chromosome location of the gene for the $\beta$ subunit of brain-specific $Ca^{2+}$ /calmodulin-dependent protein kinase II identified by transgene integration in an embryonic lethal mouse mutant," <u>Mol. Cell. Biol.</u> 12:3644-3652 (1992)	
DA	Keck et al., "Vascular permeability factor, an endothelial cell mitogen related to PDGF," <u>Science</u> 246:1309-1312 (1989)	
DB	Kohler et al., "Continuous cultures of fused cells secreting antibody of predefined specificity," <u>Nature</u> 256:495-497 (1975)	
DC	Kothary et al., "A transgene containing lacZ inserted into the dystonia locus is expressed in neural tube," <u>Nature</u> 335:435-437 (1988)	
DD	Kozbor et al., "The production of monoclonal antibodies from human lymphocytes," <u>Immunology Today</u> 4:72-79 (1983)	
DE	Kronmiller et al., 1991, "EGF antisense oligodeoxynucleotides block murine odontogenesis in vitro," <u>Dev. Biol.</u> 147:485-488	
DF	Lam et al., "A new type of synthetic peptide library for identifying ligand-binding activity," <u>Nature</u> 354:82-84 (1991)	
DG	Lamas et al., "Endothelial nitric oxide synthase: Molecular cloning and characterization of a distinct constitutive enzyme isoform," <u>Proc. Natl. Acad. Sci.</u> 89:6348-6352 (1992)	

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	DH	Larocca et al., 1991 "AM, 46,000 human milk fat globule protein that is highly expressed in human breast tumors contains factor VIII-like domains," <u>Cancer Res.</u> 51:4994-4998
	DI	Lawler et al., "The structure of human thrombospondin, an adhesive glycoprotein with multiple calcium-binding sites and homologies with several different proteins," <u>J. Cell. Biol.</u> 103:1635-1648 (1986)
	DJ	Leung et al., "Vascular endothelial growth factor is a secreted angiogenic mitogen," <u>Science</u> 246:1306-1309 (1989)
	DK	Locksley et al., "Tumor necrosis factors $\alpha$ and $\beta$ differ in their capacities to generate interleukin 1 release from human endothelial cells," <u>J. Immunol.</u> 139:1891-1895 (1987)
	DL	Logan et al., "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection," <u>Proc. Natl. Acad. Sci.</u> 81:3655-3659 (1984)
	DM	Loppnow et al., "Comparative analysis of cytokine induction in human vascular endothelial and smooth muscle cells," <u>Lymphokine. Res.</u> 8:293-299 (1989)
	DN	Lowy et al., "Isolation of transforming DNA: Cloning the hamster apt gene," <u>Cell</u> 22:817-823 (1980)
	DO	Luscher et al., "Endothelium-derived contracting factors," <u>Hypertension</u> 19:117-130 (1992)
	DP	Mackett et al., "General method for production and selection of infectious vaccinia virus recombinants expressing foreign genes," <u>J. Virol.</u> 49:857-864 (1984)
	DQ	Mackett et al., "Vaccinia virus: A selectable eukaryotic cloning and expression vector," <u>Proc. Natl. Acad. Sci.</u> 79:7415-7419 (1982)
	DR	Main et al., 1992, "The three-dimensional structure of the tenth type III module of fibronectin: An insight into RGD-mediated interactions," <u>Cell</u> 71:671-678
	DS	Mantovani et al., "Cytokine regulation of endothelial cell function," <u>FASEB J.</u> 6:2591-2599 (1992)
	DT	Matteucci et al., "The synthesis of oligodeoxypyrimidines on a polymer support," <u>Tetrahedron Letter</u> 21:719-722 (1980)
	DU	McConlogue, "Amplification and expression of heterologous ornithine decarboxylase in chinese hamster cells," <u>In: Current Communications in Molecular Biology</u> , Cold Spring Harbor Laboratory, pp. 79-87 (1987)
	DV	Millauer et al., "High affinity VEGF binding and developmental expression suggest Flk-1 as a major regulator of vasculogenesis and angiogenesis," <u>Cell</u> 72:835-846 (1993)
	DW	Morrison et al., "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains," <u>Proc. Natl. Acad. Sci.</u> 81:6851-6855 (1984)
	DX	Mulligan et al., "Selection for animal cells that express the Escherichia coli gene coding for xanthine-guanine phosphoribosyltransferase," <u>Proc. Natl. Acad. Sci.</u> 78:2072-2076 (1981)
	DY	Nabel et al., "Gene transfer into vascular cells," <u>J. Am. Coll. Cardiol.</u> 17:189B-194B (1991)
	DZ	Neuberger et al., "Recombinant antibodies possessing novel effector functions," <u>Nature</u> 312:604-608 (1984)
	EA	Noden, "Embryonic origins and assembly of blood vessels," <u>Am. Rev. Respir. Dis.</u> 140:1097-1103 (1989)

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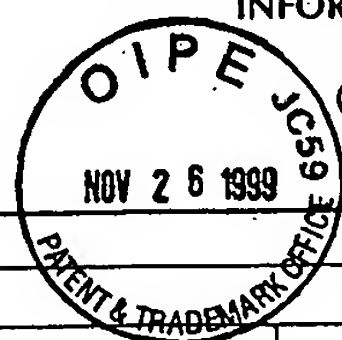
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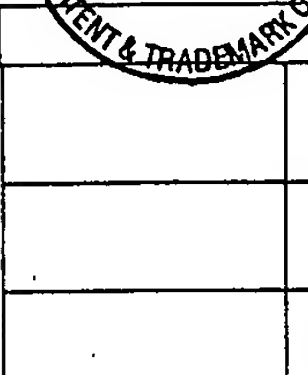
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
EB	Noden, "Origins and patterning of avian outflow tract endocardium," <u>Development</u> 111:867-876 (1991)	
EC	Nomura et al., "Evidence for positive and negative regulatory elements in the 5'-flanking sequence of the mouse sparc (osteonectin) gene," <u>J. Biol. Chem.</u> 264:12201-12207 (1989)	
ED	O'Hare et al., "Transformation of mouse fibroblasts to methotrexate resistance by a recombinant plasmid expressing a prokaryotic dihydrofolate reductase," <u>Proc. Natl. Acad. Sci.</u> 78:1527-1531 (1981)	
EE	O'Kane et al., "Detection in situ of genomic regulatory elements in drosophila," <u>Proc. Natl. Acad. Sci.</u> 84:9123-9127 (1987)	
EF	O'Reilly et al., "Angiostatin: A novel angiogenesis inhibitor that mediates the suppression of metastases by a Lewis Lung Carcinoma," <u>Cell</u> 79:315-328 (1994)	
EG	Orsini et al., 1991, "Radioimmunoassay of epidermal growth factor in human saliva and gastric juice," <u>Clinical Biochem</u> 24:135-141	
EH	Osborn et al., "Direct expression cloning of vascular cell adhesion molecule 1, a cytokine-induced endothelial protein that binds to lymphocytes," <u>Cell</u> 59:1203-1211 (1989)	
EI	Panicali et al., "Construction of poxviruses as cloning vectors: Insertion of the thymidine kinase gene from herpes simplex virus into the DNA of infectious vaccinia virus," <u>Proc. Natl. Acad. Sci.</u> 79:4927-4931 (1982)	
EJ	Pardanaud et al., "Relationship between vasculogenesis, angiogenesis and haemopoiesis during avian ontogeny," <u>Development</u> 105:473-485 (1989)	
EK	Pepper et al., "Chondrocytes inhibit endothelial sprout formation in vitro: Evidence for involvement of a transforming growth factor-beta," <u>J. Cell. Physiol.</u> 146:170-179 (1991)	
EL	Poole et al., "Sequence and expression of the discoidin I gene family in dictyostelium discoideum," <u>J. Mol. Biol.</u> 153:273-289 (1981)	
EM	Potts et al., "Epithelial-mesenchymal transformation of embryonic cardiac endothelial cells is inhibited by a modified antisense oligodeoxynucleotide to transforming growth factor $\beta$ 3," <u>Proc. Natl. Acad. Sci.</u> 88:1516-1520 (1991)	
EN	Quertermous et al., "Cloning and characterization of a basic helix-loop-helix protein expressed in early mesoderm and the developing somites," <u>Proc. Natl. Acad. Sci.</u> 91:7066-7070 (1994)	
EO	Raines et al., "Smooth muscle cells and the pathogenesis of the lesions of atherosclerosis," <u>Br. Heart J.</u> 69:S30-S37 (1993)	
EP	Reaume et al., "Expression analysis of a notch homologue in the mouse embryo," <u>Develop. Biol.</u> 154:377-387 (1992)	
EQ	Rebay et al., 1991, "Specific EGF repeats of notch mediate interactions with delta and serrate: Implications for notch as a multifunctional receptor," <u>Cell</u> 67:687-699	
ER	Reddy et al., GenBank Accession Number T09857 (accessed Dec. 18, 1997) November 29, 1993	
ES	Risau et al., "Endothelial cell growth factors in embryonic and adult chick brain are related to human acidic fibroblast growth factor," <u>EMBO J.</u> 7:959-962 (1988)	
ET	Rogers et al., "Gene transfer in plants: Production of transformed plants using ti plasmid vectors," <u>Methods for Plant Molecular Biology</u> Ed. Weissbach & Weissbach, Academic Press, N.Y. Section VIII, pp. 421-463 (1988)	

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	EU	Rothstein, "Ch. 3: Cloning in Yeast," <u>DNA Cloning</u> Vol. II, Ed. Glover, IRL Press, Wash. D.C. (1986)
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	APPLICANT: Quertermous et al.	
	FILING DATE: January 25, 1999	GROUP: 1646

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